

10/539049 VALPROIC ACID ANALOGUES

=> d his

(FILE 'HOME' ENTERED AT 15:27:50 ON 17 DEC 2007)

L1 FILE 'REGISTRY' ENTERED AT 15:28:00 ON 17 DEC 2007
STRUCTURE UPLOADED

FILE 'STNGUIDE' ENTERED AT 15:28:51 ON 17 DEC 2007

L2 FILE 'REGISTRY' ENTERED AT 15:32:17 ON 17 DEC 2007
STRUCTURE UPLOADED

L3 1 S L2

L4 5 S L2 SSS FULL

FILE 'HCAPLUS' ENTERED AT 15:33:47 ON 17 DEC 2007

L5 3 S L4

L6 3 S ABBOTT,F?/AU AND KARAGIOZOV,S?/AU

L7 3996 S VALPROIC (A) ACID

L8 2 S FLUORINATED (A) VALPROIC (A) ACID

FILE 'STNGUIDE' ENTERED AT 15:38:46 ON 17 DEC 2007

FILE 'HCAPLUS' ENTERED AT 15:44:27 ON 17 DEC 2007

L9 0 S "VPA OR VALPROIC (A) ACID" (S) "FLUORINE OR FLUORINATE OR FLU

L10 0 S "VPA OR VALPROIC (A) ACID" (5N) "FLUORINE OR FLUORINATE OR FL

10/539049 VALPROIC ACID ANALOGUES

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAMLL1621

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 CAS REGISTRY enhanced with new experimental property tags
NEWS 3 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 4 AUG 13 CA/Caplius enhanced with additional kind codes for granted patents
NEWS 5 AUG 20 CA/Caplius enhanced with CAS indexing in pre-1907 records
NEWS 6 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 7 AUG 27 USPATOLD now available on STN
NEWS 8 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 9 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 10 SEP 13 FORIS renamed to SOFIS
NEWS 11 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 12 SEP 17 CA/Caplius enhanced with printed CA page images from 1967-1998
NEWS 13 SEP 17 Caplius coverage extended to include traditional medicine patents
NEWS 14 SEP 24 ENBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 15 OCT 02 CA/Caplius enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 16 OCT 19 BEILSTEIN updated with new compounds
NEWS 17 NOV 15 Derwent Indian patent publication number format enhanced
NEWS 18 NOV 19 WPIX enhanced with XML display format
NEWS 19 NOV 30 ICSD reloaded with enhancements
NEWS 20 DEC 04 LINPADOCDB now available on STN
NEWS 21 DEC 14 BEILSTEIN pricing structure to change
NEWS 22 DEC 17 USPATOLD added to additional database clusters
NEWS 23 DEC 17 INSURUGCONF removed from database clusters and STN
NEWS 24 DEC 17 DOENE now includes more than 10 million sequences
NEWS 25 DEC 17 TOXCENTER enhanced with 2008 MESH vocabulary in MEDLINE segment
NEWS 26 DEC 17 MEDLINE and LHMEDLINE updated with 2008 MESH vocabulary
NEWS 27 DEC 17 CA/Caplius enhanced with new custom IPC display formats
NEWS 28 DEC 17 STN Viewer enhanced with full-text patent content from USPATOLD

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability

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10/539049 VALPROIC ACID ANALOGUES

NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 15:27:50 ON 17 DEC 2007

=> file reg			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	0.21	0.21	

FILE 'REGISTRY' ENTERED AT 15:28:00 ON 17 DEC 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 DEC 2007 HIGHEST RN 958294-65-0
DICTIONARY FILE UPDATES: 16 DEC 2007 HIGHEST RN 958294-65-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

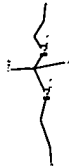
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> Uploading C:\Program Files\stnexp\Queries\2007cases\10539049\formula1.str

Page 2 12/17/07



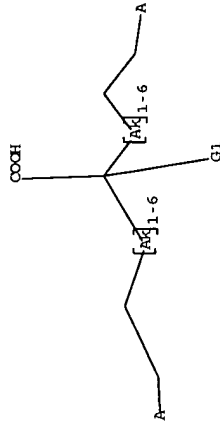
chain nodes :
 1 2 3 4 5 6 7 8 9 10 16
 chain bonds :
 1-2 2-3 2-6 2-16 3-4 4-5 5-10 6-7 7-8 8-9
 exact/norm bonds :
 2-3 2-6 2-16 3-4 5-10 6-7 8-9
 exact bonds :
 1-2 4-5 7-8

G1:F,H

Connectivity :
 3:2 M minimum PC ring/chain 6:2 M minimum PC ring/chain
 Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 10:CLASS 16:CLASS

L1 STRUCTURE UPLOADED

=> d l1
 L1 HAS NO ANSWERS
 L1 STR



G1 F,H

Structure attributes must be viewed using STN Express query preparation.

=> s l1
 GENERIC GROUP NOT VALID HERE
 Generic groups may not be used in these circumstances:
 1. Any generic group node (e.g., Hy) in a ring.
 2. An Ak node attached to another Ak node.
 3. An Ak node with three or more attachments where one or more of the attachments is to a C node.

=> fil stng
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST
 SINCE FILE ENTRY
 TOTAL SESSION
 0.45 0.66

FILE 'STNGUIDE' ENTERED AT 15:28:51 ON 17 DEC 2007
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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Dec 14, 2007 (20071214/UP).

=> file reg
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST
 SINCE FILE ENTRY
 TOTAL SESSION
 0.36 1.02

FILE 'REGISTRY' ENTERED AT 15:32:17 ON 17 DEC 2007
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 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 16 DEC 2007 HIGHEST RN 958294-65-0
 DICTIONARY FILE UPDATES: 16 DEC 2007 HIGHEST RN 958294-65-0
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TSCA INFORMATION NOW CURRENT THROUGH JUNE 29, 2007

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stngen/srdoc/properties.html>

Uploading C:\Program Files\Stnexp\Queries\2007cases\10539049\formula.str



chain nodes :
1 2 3 4 5 6 7 8 9 10 16 18
chain bonds :
1-2 2-3 2-6 2-16 3-4 4-5 5-10 6-7 7-8 8-9
exact/norm bonds :
2-16 5-10 8-9
exact bonds :
1-2 2-3 2-6 3-4 4-5 6-7 7-8

G1:F,H

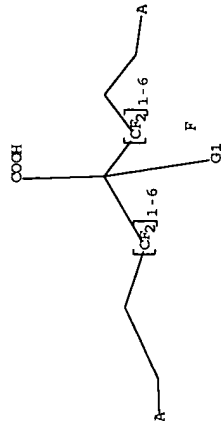
G2:F,H

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 16:CLASS 18:CLASS

L2 STRUCTURE UPLOADED

=> d l2
L2 HAS NO ANSWERS
STR

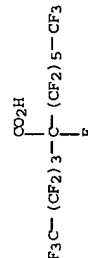


G1:F,H
G2:F,H

Structure attributes must be viewed using STN Express query preparation.

=> s l2
SAMPLE SEARCH INITIATED 15:32:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 444 TO ITERATE
100.0% PROCESSED 444 ITERATIONS
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: BATCH **COMPLETE**
PROJECTED ANSWERS: 7616 TO 10144
1 TO 80
L3 1 SEA SSS SAM L2
=> d sca
L3 1 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Octanoic acid, 2,3,3,4,4,5,5,6,6,7,7,8,8,8-tetradecafluoro-2-(
(nonafluorobutyl)-, ammonium salt (9CI)
MF C12 H F23 O2 . H3 N

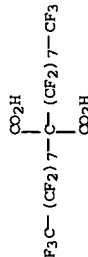
1 ANSWERS

● NH₃

ALL ANSWERS HAVE BEEN SCANNED

=> s l2 sss full
FULL SEARCH INITIATED 15:33:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7817 TO ITERATE
100.0% PROCESSED 7817 ITERATIONS (2 INCOMPLETE) 5 ANSWERS
SEARCH TIME: 00.00.03

L4 5 SEA SSS FUL L2
=> d scan 1-5 ide
'1-5', IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
L4 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
ITERATION INCOMPLETE
IN Propanedioic acid, bis(heptadecafluorooctyl)-(9CI)
MF C19 H2 F34 O4
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

- REG - RN
- SAM - Index Name, MF, and structure - no RN
- FIDE - All substance data, except sequence data
- IDE - FIDE, but only 50 names
- SQIDE - IDE, plus sequence data
- SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
- SQD - Protein sequence data, includes RN
- SQD3 - Same as SQD, but 3-letter amino acid codes are used
- SQN - Protein sequence name information, includes RN
- CALC - Table of calculated properties
- EPROP - Table of experimental properties
- PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

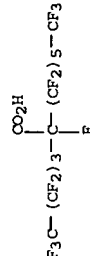
IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented
OIBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

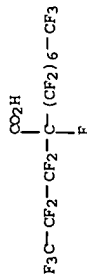
For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L4 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Octanoic acid, 2,3,3,4,4,5,5,6,6,7,7,8,8,8-tetradecafluoro-2-(nonafluorobutyl)-, ammonium salt (9CI)
MF C12 H F23 O2 . H3 N

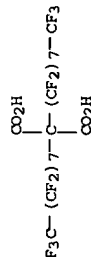


L4 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Nonanoic acid, 2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-hexadecafluoro-2-(heptafluoropropyl)-(9CI)
MF C12 H F23 O2



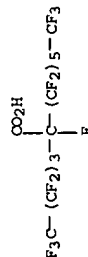
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 ITERATION INCOMPLETE
 IN Propanedioic acid, bis(heptadecafluorooctyl)-, disodium salt (9CI)
 MF C19 H2 F34 O4 . 2 Na



● 2 Na

L4 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Octanoic acid, 2,3,3,4,4,5,5,6,6,7,7,8,8,8-tetradecafluoro-2-
 MF (nonafluorobutyl)- (9CI)
 CI C12 H F23 O2
 COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d his

(FILE 'HOME' ENTERED AT 15:27:50 ON 17 DEC 2007)

FILE 'REGISTRY' ENTERED AT 15:28:00 ON 17 DEC 2007
 STRUCTURE UPLOADED

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FILE 'STNGUIDE' ENTERED AT 15:28:51 ON 17 DEC 2007

FILE 'REGISTRY' ENTERED AT 15:32:17 ON 17 DEC 2007

L2 STRUCTURE UPLOADED
 L3 1 S L2
 L4 5 S L2 SSS FULL

=> fill hcapl

COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
 173.00 174.02

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 15:33:47 ON 17 DEC 2007
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FILE COVERS 1907 - 17 Dec 2007 VOL 147 ISS 26
 FILE LAST UPDATED: 14 Dec 2007 (20071214/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l4

L5 3 L4

=> d l5 1-3 ibib abs hitstr

L5 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:323285 HCAPLUS

DOCUMENT NUMBER: 129:16513

TITLE: Aqueous fluoropolymer compositions and their preparing methods

INVENTOR(S): Fan, Wei-qiang; Manzara, Anthony P.

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA

SOURCE: PCT Int. Appl., '79 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9820055	A1	19980514	WO 1997-US4446	19970319

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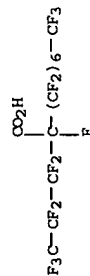
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU
 RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

US 5998521 A 19991207 US 1996-743573 19961104
 AU 9722184 A 19980529 AU 1997-22184 19970319
 EP 935621 A1 19990818 EP 1997-915175 19970319
 EP 935621 B1 20011128
 R: BE, CH, DE, FR, IT, LI, NL
 CN 1239483 A 19991222 CN 1997-180208 19970319
 JP 2001503801 T 20010321 JP 1998-521343 19970319
 KR 2000052962 A 20000825 KR 1999-703836 19990430
 PRIORITY APPLN. INFO.: US 1996-743573 A 19961104
 WO 1997-US4446 W 19970319

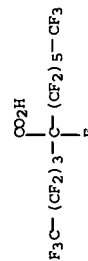
OTHER SOURCE(S): MARPAT 129-16513
 AB The comps. comprise fluoropolymers, and 21 environmentally-friendly fluorinated emulsifier comprising a-branched fluoroalkylcarbonylimolieties. The fluoropolymers are selected from PTFE or polyvinylidene fluoride. Methods for preparation of intermediates, monomers, repellent treatments, coatings, surfactants, emulsifiers, and aqueous film-forming foamable solns. are included.

IT 207678-54-4P 207678-57-7P 207678-73-7P
 RL: IMF (industrial manufacture); PRP (properties); PREP (Preparation) (aqueous fluoropolymer comps. containing environmentally-friendly fluorinated emulsifiers)

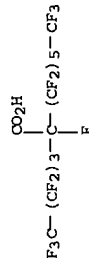
RN 207678-54-4 HCAPLUS
 CN Nonanoic acid, 2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluoro-2-(heptafluoropropyl)-(9CI) (CA INDEX NAME)



RN 207678-57-7 HCAPLUS
 CN Octanoic acid, 2,3,3,4,4,5,5,6,6,7,7,8,8,8-tetradecafluoro-2-(nonafluorobutyl)-(9CI) (CA INDEX NAME)



RN 207678-73-7 HCAPLUS
 CN Octanoic acid, 2,3,3,4,4,5,5,6,6,7,7,8,8,8-tetradecafluoro-2-(nonafluorobutyl)-(9CI) (CA INDEX NAME)



● NH₃

REFERENCE COUNT: 5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998-323170 HCAPLUS

DOCUMENT NUMBER: 129-17563

TITLE: Aqueous film-forming foam compositions

INVENTOR(S): Stern, Richard M.; Fan, Wei-qiang

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA

SOURCE: PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9819742	A1	19980514	WO 1997-US4560	19970318
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU				
RW: CH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6015838	A	20000118	US 1996-743478	19961101
CA 2269340	A1	19980514	CA 1997-2269340	19970318
AU 9725854	A	19980529	AU 1997-25854	19970318
AU 723935	B2	20000907		
EP 935486	A1	19990818	EP 1997-917568	19970318
EP 935486	B1	20011017		
R: BE, CH, DE, FR, GB, IT, LI, NL				
CN 1239897	A	19991229	CN 1997-180300	19970318
JP 2002514240	T	20020514	JP 1998-521344	19970318
KR 2000052963	A	20000825	KR 1999-703837	19990430
PRIORITY APPLN. INFO.:			US 1996-743478	A 19961104
			WO 1997-US4560	W 19970318

OTHER SOURCE(S): MARPAT 129-17563
 AB This invention provides aqueous film-forming foamable (APFF) comps. comprising one or more environmentally-friendly a-branched fluoroalkylcarbonyl group-containing surfactants.

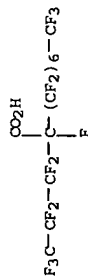
IT 207678-54-4

RL: TEM (Technical or engineered material use); USES (Uses) (surfactants; aqueous film-forming foam comps. containing)

RN 207678-54-4 HCAPLUS

CN Nonanoic acid, 2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluoro-2-

(heptafluoropropyl) - (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:72287 HCAPLUS
DOCUMENT NUMBER: 116:72287

TITLE: Electrostastographic toners

INVENTOR(S): Kato, Koichi; Tomita, Masami; Hagiwara, Tomoe

PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKOXAF

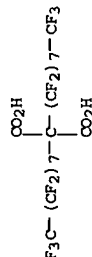
PATENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

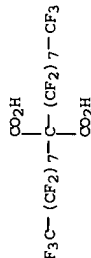
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03233767	A	19911002	JP 1990-239980	19900912
PRIORITY APPLN. INFO.:			JP 1989-316551	A1 19891207
AB The toners consist of binder, coloring agent, and F-containing compound				
R1R2R3C(CF2)mCR4R5R6 [R1-6 = F, CO2H, CO2Na, CO2CnH2p+1 (p≥1),				
CO2K, CO2Li, CO2NH4, SO3K, SO3Na, -(CH2CH2O)nH, NMe3; number of F in				
R1-6: 4; m: 2]. The F-containing compound may be				
CF3(CF2)kCF2CR7R8R9 [R7-9 = as defined for R1-6 or CF3(CF2)q (q≥2);				
number of F in R7-9 ≤ 2; k ≥ 2]. These toners do not form films				
on sleeves or on photoconductors, and do not produce fog in image.				
IT 138707-62-7 138707-64-9				
RU: TEM (Technical or engineered material use); USES (Uses)				
(electrophotog. toner containing, for prevention of film formation and fog)				
RN 138707-62-7 HCAPLUS				
CN Propanedioic acid, bis(heptafluorooctyl) - disodium salt (9CI) (CA INDEX NAME)				



● 2 Na

RN 138707-64-9 HCAPLUS

CN Propanedioic acid, bis(heptafluorooctyl) - (9CI) (CA INDEX NAME)



=> s abbott,f2/au and karagiozov,s7/au

177 ABBOTT,F2/AU

L6 6 KARAGIOZOV,S7/AU

3 ABBOTT,F2/AU AND KARAGIOZOV,S7/AU

=> d l6 1-3 ibib abs

L6 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:415182 HCAPLUS

DOCUMENT NUMBER: 143:146535

TITLE: Valproic acid glucuronidation is associated with

increases in 15-F2t-isoprostane in rats

Tong, Vincent; Teng, Xiao Wei; Karagiozov,

Stoyan; Chang, Thomas K. H.; Abbott, Frank

S.

CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, The University of British Columbia, Vancouver, BC, V6T 1Z3, Can.

SOURCE: Free Radical Biology & Medicine (2005), 38(11),

1471-1483

CODEN: FRBMEH; ISSN: 0891-5849

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Oxidative stress has been associated with valproic acid (VPA) treatment in rats and studies are ongoing to examine the relationship between VPA biotransformation and the increase in the lipid peroxidn. biomarker 15-F2t-isoprostane (15-F2t-Isop). This study investigated the effects of modulating VPA-1-O-acyl glucuronide (VPA-G) formation on 15-F2t-Isop levels. Adult male Sprague-Dawley rats were pretreated with phenobarbital (PB; 80 mg/kg/day for 4 days), (-)-borneol (320 mg/kg), or a combination of both before VPA treatment (500 mg/kg). Liver VPA-G levels were determined by LC/MS and plasma and liver 15-F2t-Isop levels were measured using an EIA method. PB, an inducer of VPA glucuronidation, elevated both liver VPA-G and plasma and liver 15-F2t-Isop levels in VPA-treated rats. (-)-Borneol, an inhibitor of glucuronidation, significantly reduced the levels of liver VPA-G and decreased plasma and liver 15-F2t-Isop levels in both the VPA and the PB + VPA groups. (-)-Borneol and PB alone did not elevate 15-F2t-Isop levels compared to the vehicle control groups. The fluorinated analog of VPA, α-fluoro-VPA, was a poor substrate for glucuronidation and did not elevate 15-F2t-Isop levels. In summary, the VPA-induced formation of 15-F2t-Isop is apparently associated with VPA glucuronidation.

REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:534162 HCAPLUS

DOCUMENT NUMBER: 141:65128

TITLE: Valproic acid analogs, their preparation, and

of these two compounds, as determined by their log P values, were similar when compared at pH 2.5. Brain, serum and urine samples were prepared from mature male CD-1 mice treated with either α -fluoro VPA or VPA for quantitation of drug concns. Brain synaptosomes were isolated to determine γ -aminobutyric acid levels. After equivalent doses of 0.83 mmol/kg, α -fluoro VPA was characterized by its slower access into mouse brain, compared to VPA. The peak concentration of α -fluoro VPA in mouse brain was achieved 45 min later than in the serum, whereas the peak brain level of VPA coincided with the peak serum level occurring within 15 min. Simultaneous curve fitting of both brain and serum drug concns. using a two-compartment model indicated that α -fluoro VPA, like VPA, may be asym. transported across the blood-brain-barrier. This property of α -fluoro VPA was also reflected in its low brain-to-serum concentration ratio of 0.09 at the peak brain drug concentration (0.16 for VPA). The primary β -oxidation metabolite of VPA was not found in the serum and urine of mice treated with α -fluoro VPA. Although the glucuronide was a major metabolite of VPA (28.5% of the dose), α -fluoro VPA was observed to conjugate extensively with L-glutamine (33.3% of the dose). α -Fluoro VPA appeared to persist in the general circulation, which, in turn, may contribute to the apparent slow elimination of the drug from the brain. The fluorinated compound was demonstrated to have anticonvulsant activity in the 1,5-pentamethylenetetrazole seizure test and to be capable of increasing brain synaptic γ -aminobutyric acid, the BD50 being 1.70 mmol/kg. These results suggest that α -fluoro VPA has potential as a new anticonvulsant drug.

REFERENCE COUNT: 58
THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1992:214009 HCAPLUS
DOCUMENT NUMBER: 116:214009
TITLE: Preparation of fluorinated valproic acid and anticonvulsants containing them
INVENTOR(S): Yamaguchi, Koji; Yanaka, Mikio
PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKKXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04021652	A	19920124	JP 1990-122641	19900511
JP 2954979	B2	19990927	JP 1990-122641	19900511

PRIORITY APPLN. INFO.: MARPAT 116:214009
OTHER SOURCE(S):
AB (CF3CH2CH2)2CHCO2H (I) and its pharmacol. acceptable salts, which show stronger anticonvulsive activity and less adverse effect than valproic acid, are prepared by treatment of CF3CH2CH2X (X = halo) with alkyl cyanoacetates, decarboxylation of resulting (CF3CH2CH2)2C(CO2R)CN (R = alkyl), hydrolysis, and optional salt formation or salt exchange reaction. Refluxing 4.74 g Et cyanoacetate with K2CO3 and 4.88 g CF3CH2CH2Br (preparation given) in DMF for 63 h gave 6.05 g (CF3CH2CH2)2C(CO2Et)CN, which (6.00 g) was refluxed with KOH and ethylene glycol for 21 h to afford 1.36 g I. I Na salt at 330 mg/kg (1.2 mmol/kg) p.o. showed good anticonvulsive effect in mice, vs. no anticonvulsive effect, for Na valproate at 1.2 mmol/kg. Oral administration of I Na salt at 1320 mg/kg (4.8 mmol/kg) to mice

caused minor motor damage, vs. severe damage, for Na valproate at 4.8 mmol/kg. I Na salt (500 mg) was dissolved in 2 mL saline to give an injectable solution

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FULL ESTIMATED COST	50.76	224.78
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L1 STRUCTURE UPLOADED

FILE 'STNGUIDE' ENTERED AT 15:28:51 ON 17 DEC 2007

FILE 'REGISTRY' ENTERED AT 15:32:17 ON 17 DEC 2007
L2 STRUCTURE UPLOADED

L3 1 S L2

L4 5 S L2 SSS FULL

FILE 'HCAPLUS' ENTERED AT 15:33:47 ON 17 DEC 2007

L5 3 S L4

L6 3 S ABBOTT, F2/AU AND KARAGIOZOV, S7/AU

L7 3996 S VALPROIC (A) ACID

L8 2 S FLUORINATED (A) VALPROIC (A) ACID

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10/539049 VALPROIC ACID ANALOGUES

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FILE LAST UPDATED: 14 Dec 2007 (20071214/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s "VPA or valproic (a) acid" (s) "fluorine or fluorinate or fluorinated"

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1655 "VPA"
1658 "VPAS"
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1927 "ORS"
1927 "OR"
3998 "VALPROIC"
21619230 "A"
4498412 "ACID"
1605681 "ACIDS"
5004418 "ACID"
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("VPA" (W) "OR" (W) "VALPROIC" (W) "A" (W) "ACID")
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570 "FLUORINES"
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1927 "OR"
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38949 "FLUORINATED" OR "FLUORINATEDS"
0 "FLUORINE OR FLUORINATE OR FLUORINATED"
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("VPA" (W) "OR" (W) "VALPROIC" (W) "A" (W) "ACID")

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10/539049 VALPROIC ACID ANALOGUES

=> s "VPA or valproic (a) acid" (5n) "fluorine or fluorinate or fluorinated"

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1655 "VPA"
1658 "VPAS"
0 "OR"
1927 "ORS"
1927 "OR"
3998 "VALPROIC"
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4498412 "ACID"
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5004418 "ACID"
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("VPA" (W) "OR" (W) "VALPROIC" (W) "A" (W) "ACID")
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111805 "FLUORINE"
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218 "FLUORINATE"
47 "FLUORINATES"
264 "FLUORINATE" OR "FLUORINATES"
0 "OR"
1927 "ORS"
1927 "OR"
38949 "FLUORINATED"
1 "FLUORINATEDS"
38949 "FLUORINATED" OR "FLUORINATEDS"
0 "FLUORINE OR FLUORINATE OR FLUORINATED"
("FLUORINE" (W) "OR" (W) "FLUORINATE" (W) "OR" (W) "FLUORINATED")
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INATED"
=> d his
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FILE 'REGISTRY' ENTERED AT 15:28:00 ON 17 DEC 2007
STRUCTURE UPLOADED
L1
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L2 1 S L2
L3 5 S L2 SSS FULL
L4
FILE 'HCAPLUS' ENTERED AT 15:33:47 ON 17 DEC 2007
L5 3 S L4
L6 3 S ABBOTT, F?/AU AND KARAGIOZOV, S?/AU

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10/539049 VALPROIC ACID ANALOGUES

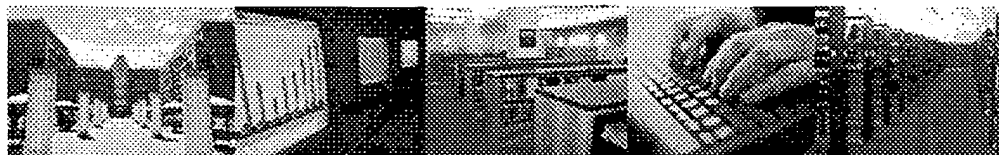
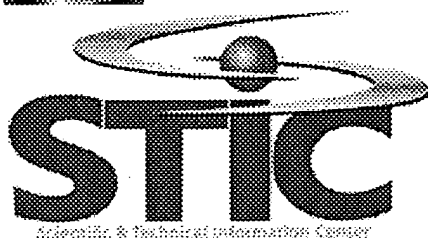
L7 3996 S VALPROIC (A) ACID
L8 2 S FLUORINATED (A) VALPROIC (A) ACID

FILE 'STNGUIDE' ENTERED AT 15:38:46 ON 17 DEC 2007

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L9 0 S "VPA OR VALPROIC (A) ACID" (S) "FLUORINE OR FLUORINATE OR FLU
L10 0 S "VPA OR VALPROIC (A) ACID" (SN) "FLUORINE OR FLUORINATE OR FL

"> LOG V			
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	ENTRY	SESSION	
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Application Number: 10/539049

Author (if known): Tang, Wei; Palaty, Jan; Abbott, Frank S.
Article or Chapter Title: Time course of .alpha.-fluorinated valproic acid
Journal or Book Title: Journal of Pharmacology and Experimental Therapeutics
Volume and issue (for articles): 282(3),
Year of Publication: (1997),
Page numbers: 1163-1172
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